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Application No. 10/762,240
Reply To Non-Final Office Action dated June 19, 2007

Docket No.: 215407-106338

2003/012

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-25. (Cancelled)

- 26. (Currently Amended) A filter element to be disposed in a filter housing, wherein the filter housing includes an inner surface, a ledge, and a lid, comprising:
 - a filter media including a clean side face;
- a seal bonded to the clean side face, wherein the seal is bonded to a perimeter of the clean side face to form a flange portion integral with the filter media; and
- a flexible portion extending from the flange portion that is adapted to be compressed by a lid of a filter housing, wherein the flexible portion includes a pair of flexible flange portions that extend obliquely in divergent directions from the flange portion.
- 27. (Previously presented) The filter element according to claim 26 further comprising a rim portion, wherein the rim portion is bonded to a perimeter of the filter media, wherein the perimeter of the filter media includes at least one side surface of the filter media.
- 28. (Currently Amended) The filter element according to claim 27, wherein the seal includes a second flange portion integrally-extending from the flange portion in a perpendicular direction with respect to the least one side surface of the filter media, wherein the second flange portion is adapted to overlay and seal <u>said [[[a]]]</u> ledge of <u>said [[[the]]]</u> filter housing.
- 29. (Currently Amended) The filter element according to claim 26, wherein the rim portion is adapted to radially engage and seal <u>said [[[an]]]</u> inner surface of <u>said [[[the]]]</u> filter housing.

30-33. (Cancelled)

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- 34. (Previously presented) The filter element according to claim 26, wherein the filter media is a pleated filter media including cellulose, cellulose blends, polyester fibers, or polypropylene fibers.
- 35. (Previously presented) The filter element according to claim 26, wherein the seal includes thermoplastic elastomer (TPE) embedded in ethylene-polylene terpolymer rubber (EPDM).
- 36. (Previously presented) A filter element comprising:
 - a filter media including a clean side face;
- a rigid frame bonded to the clean side face, wherein the rigid frame is bonded to a perimeter of the clean side face to form a flange portion integral with the filter media; and
- a seal bonded to the rigid frame, wherein the seal is bonded to a perimeter of the rigid frame to form a seal flange portion integral with the rigid frame.
- 37. (Previously presented) A method for manufacturing a filter element comprising the steps of: inserting a filter media into an injection molding machine, wherein the filter media includes a clean side face;

injecting a material defining a rigid frame directly onto a perimeter of the clean side face; and

injecting a material defining a seal including a flange portion directly onto the rigid frame.

- 38. (Previously presented) The method according to claim 37 further comprising the step of forming, with the material defining the seal, a flexible portion extending from the flange portion.
- 39. (Previously presented) The method according to claim 38, wherein the flexible portion includes a pair of flexible flange portions that extend obliquely in divergent directions from the flange portion.
- 40. (Previously presented) The method according to claim 38 further comprising the step of forming a rim portion from the material defining the seal, wherein the rim portion is bonded to a perimeter of the rigid frame.

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- 41. (Previously presented) The method according to claim 38 further comprising the step of forming a second flange portion from the material defining the rigid frame that integrally-extends from the rigid frame in a perpendicular direction with respect to at least one side surface of the filter media, wherein the second flange portion is adapted to overlay and seal a ledge of the filter housing.
- 42. (Previously presented) The method according to claim 38, wherein the flexible portion includes a U-shape portion having a first leg and a second leg.
- 43. (Previously presented) The method according to claim 38, wherein the flexible portion includes a bulb seal including a void.
- 44. (Previously presented) The method according to claim 37, wherein the thermoplastic material is a thermoplastic elastic material (TPE) embedded in ethylene-propylene terpolymer (EPDM).
- 45. (Previously presented) The method according to claim 37, wherein the filter media is a pleated filter media comprised of cellulose, cellulose blends, polyester fibers, or polypropylene fibers.
- 46. (Currently Amended) A filter element to be disposed in a filter housing, wherein the filter housing includes an inner surface, a ledge, and a lid, comprising:
 - a filter media including a clean side face;
- a seal bonded to a perimeter of the clean side face to form a flange portion integral with the filter media; and
- a flexible portion extending from the flange portion that is adapted to be compressed by a lid of a filter housing, wherein the flexible portion includes a U-shape portion having a first leg and a second leg, and wherein the U-shape portion extends toward the lid.
- 47. (Previously presented) The filter element according to claim 46 further comprising a rim portion, wherein the rim portion is bonded to a perimeter of the filter media, wherein the perimeter of the filter media includes at least one side surface of the filter media.

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- 48. (Currently Amended) The filter element according to claim 47, wherein the seal includes a second flange portion integrally-extending from the flange portion in a perpendicular direction with respect to the least one side surface of the filter media, wherein the second flange portion is adapted to overlay and seal <u>said [[[a]]]</u> ledge of <u>said [[[the]]]</u> filter housing.
- 49. (Currently Amended) The filter element according to claim 46, wherein the rim portion is adapted to radially engage and seal said [[[an]]] inner surface of said [[[the]]] filter housing.
- 50. (Previously presented) The filter element according to claim 46, wherein the filter media is a pleated filter media including cellulose, cellulose blends, polyester fibers, or polypropylene fibers.
- 51. (Previously presented) The filter element according to claim 46, wherein the seal includes thermoplastic elastomer (TPE) embedded in ethylene-polylene terpolymer rubber (EPDM).
- 52. (Currently Amended) A filter element to be disposed in a filter housing, wherein the filter housing includes an inner surface, a ledge, and a lid, comprising:
 - a filter media including a clean side face:
- a seal bonded to a perimeter of the clean side face to form a flange portion integral with the filter media;
- a flexible portion extending from the flange portion axially compressible by a lid of a filter housing, wherein the flexible portion includes a bulb seal defining a void.
- 53. (Previously presented) The filter element according to claim 52 further comprising a rim portion, wherein the rim portion is bonded to a perimeter of the filter media, wherein the perimeter of the filter media includes at least one side surface of the filter media.
- 54. (Currently Amended) The filter element according to claim 53, wherein the seal includes a second flange portion integrally-extending from the flange portion in a perpendicular direction with respect to the least one side surface of the filter media, wherein the second flange portion is adapted to overlay and seal <u>said [[[a]]]</u> ledge of <u>said [[[the]]]</u> filter housing.

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- 55. (Currently Amended) The filter element according to claim 52, wherein the rim portion is adapted to radially engage and seal said [[[an]]] inner surface of said [[[the]]] filter housing.
- 56. (Previously presented) The filter element according to claim 52, wherein the filter media is a pleated filter media including cellulose, cellulose blends, polyester fibers, or polypropylene fibers.
- 57. (Previously presented) The filter element according to claim 52, wherein the seal includes thermoplastic elastomer (TPE) embedded in ethylene-polylene terpolymer rubber (EPDM).
- 58. (Previously presented) A filter element comprising:
- a pleated filter media including a generally planar first face defining a first planar axis and a generally planar second face, the filter media defining a media perimeter between the generally planar first face and the generally planar second face, wherein the perimeter includes an end and a side that meet at a corner;
- a thermoplastic vulcanizate seal attached to the corner of the pleated filter media and extending over at least a portion of the end and at least a portion of the side, wherein the seal extends over at least a portion of the first planar face; and
- a first flange extending from the seal, wherein at least a portion of the first flange extends away from the filter media.
- 59. (Previously presented) The filter element according to claim 58, further comprising a second flange extending from the seal, wherein at least a portion of the second flange extends away from the filter media, and further wherein the first flange and the second flange define a gap therebetween.
- 60. (Previously presented) The filter element according to claim 59, wherein the first flange and the second flange are generally perpendicular.
- 61. (Previously presented) The filter element according to claim 59, wherein an axis of the first flange and an axis of the second flange diverge.

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- 62. (Previously presented) The filter element according to claim 59, wherein the first and the second flange extend from a common base that extends away from the perimeter.
- 63. (Previously presented) The filter element according to claim 58, wherein the first flange is connected to the seal via a base, and wherein the first flange extends from the base.